



Robert Greene Sterne Edward J. Krassler Jorge A. Goldstein David K.S. Comwell Robert W. Esmond Teacy-Gene G. Durkin Michaele A. Cimbala Michael B. Ray Robert E. Sotohl Frite K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Linda E. Alcom Robert C. Millonig Donald J. Featherston Donald J. Featherston Jadish U. Kim Timothy J. Shea, Jr. Panick E. Garrett Heidi L. Kraus Edward W. Yee Albert L. Fero Donald R. Banowit Peter A. Jackman Teresa U. Medler Jeffiny S. Weaver Kendrick P. Pratterson Vincent L. Capuano Eldora Elision Floyd Thomas C. Fiala Brian J. Del Buono Vergil Lee Beaston Kimberly N. Reddick

Joseph S. Ostroff Frank R. Cottingham Christine M. Ubuller Rae Lynn Prengarian Jane Shersherovich* George S. Bardmesser Daniel A. Kelinia Jason D. Eisenbern Michael D. Specht Andrea J. Kamage Tracy L. Muller LuArine M. DeSantis John J. Figuerded Jiera S. Coston Aric W. Ledford* Jessika L. Parezo Timothy A. Doyle' Gaby L. Longsworth * Nicole D. Dretar' Ted J. Ebersole Jyou'C. Lyer * Registend Patent Ages Karen R. Markowicz Nancy J. Leid Helene C. Carlson Matthew J. Dowd Aaron L. Schwartz Katina Y. Pel Quach Byan L. Sisten

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*Admitted only in Maryland *Admitted only in Virginia *Practice Limited to

May 17, 2004

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Art Unit 1652

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Re: U.S. Utility Patent Application

Application No. 10/761,278; Filed: January 22, 2004

For: Method Capable of Increasing Competency of Bacterial Cell

Transformation
Inventors: Donahue et al.

Our Ref: 0942.4710003/RWE/FRC

Sir:

Encls.

Transmitted herewith for appropriate action are the following documents:

- Information Disclosure Statement;
- Listing of the cited documents on Form PTO-1449 (23 sheets); and
- One (1) return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Frank R. Cottingham

Attorney for Applicants
Registration No. 50,437

FRC/shr

SKGF_263701.1

THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DONAHUE et al.

Appl. No.: 10/761,278 Filed: January 22, 2004

For: Method Capable of Increasing

Competency of Bacterial Cell

Transformation

Confirmation No.: 3164

Art Unit: 1652

Examiner: To be assigned

Attv. Docket: 0942.4710003/RWE/FRC

Information Disclosure Statement

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Copies of the documents were cited by or submitted to the Office in an IDS that complies with 37 C.F.R. § 1.98(a)-(c) in Application No. 09/895,202, filed July 2, 2001, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Frank R. Catterlin

Frank R. Cottingham Attorney for Applicants Registration No. 50,437

Date: MAY 17, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4710003/RWE/FRC 10/761,278
APPLICANT Donahue et al.
FILING DATE GROUP January 22. 2004 1552

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				U.S.	PATENT DOCUMENTS	-				
EXAMINER INITIAL		DOC	CUMENT	DATE	NAME	CLASS	SUB- CLASS	FILING DATE		
	AA1	3,8	43,453	10/22/1974	Freake, et al.		1	03/02/1973		
	AB1	4,0	38,143	07/26/1977	Juni			08/15/1975		
	AC1	4,4	46,230	05/01/1984	Zubrzycki			10/30/1981		
	AD1	4,5	20,019	05/28/1985	Ribi, et al.			03/19/1984		
	AE1	4,6	81,852	07/21/1987	Tribe	1		01/18/1983		
	AF1	4,8	08,404	02/28/1989	Bhogal			01/11/1988		
	AG1	4,8	24,938	04/25/1989	Koyama, et al.			08/31/1987		
	AH1	4,8	51,348	07/25/1989	Hanahan			07/16/1986		
	AI1	4,8	91,319	01/02/1990	Roser		T	05/07/1987		
	AJ1	4,9	50,609	08/21/1990	Tischer, et al.			03/27/1986		
	AK1	4,9	81,797	01/01/1991	Jessee, et al.			11/14/1988		
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	AL1	AU-	A-27434/88	06/29/1989	Australia			Yes No		
	AM1	EP A2	0 383 569	08/22/1990	Europe			Yes		
	AN1	EP A1	0 508 496	10/14/1992	Europe			Yes		
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	AP							Yes No		
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	AR	1		Soc. Cosmet.	C.M. Dea, "Recent advances Chem. 22:61-76, Society of					
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	АТ	1	Transforma	ation and stor	ne-step preparation of compe age of bacterial cells in t 2175, The National Academy	he same so	olution,"	Proc. Natl.		
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ATTY. DOCKET NO. APPLICATION NO. 0942.4710003/RME/FRC 10/761,278

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	AA2	5,04	45,446	09/03/1991	Goodrich, Jr., et al.			07/11/1989
	AB2	5,05	59,518	10/22/1991	Kortright, et al.			10/20/1988
	AC2	5,09	98,893	03/24/1992	Franks, et al.			02/12/1990
	AD2	5,25	92,507	03/08/1994	Charley			09/14/1992
	AE2	5,42	25,951	06/20/1995	Goodrich, Jr., et al.			05/31/1991
	AF2	5,5	12,468	04/30/1996	Greener			11/22/1993
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AR 2 Cosloy, S.D. and M. Oishi, "Genetic Transformation in Escherichia coli K. Proc. Natl. Acad. Sci. USA 70:84-87, The National Academy of Sciences (1:								
	Cronan, Jr., J.E., "Thermal Regulation of the Membrane Lipid Compostion of Eacherichia coli," J. Biol. Chem. 250:7074-7077, American Society for Biochemistry and Molecular Biology (1975).							

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Crowe, J.H. et al., "Stabilization of dry phospholipid bilayers and proteins by sugars," $Biochem.\ J.\ 242:1-10$, American Chemical Soceity (1987).

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	ATTY. DOCKET NO. 0942.4710003/RWE/FRC	APPLICATION NO. 10/761,278
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	AR	3	Danilevska Coumermyci	aya, O.N. and in," Molec. Ge	A.I. Gragerov, "Curing of Fen. Genet. 178:233-235, Spri	Sscherichi .nger Verl	<i>a coli</i> K12 ag (1980).	Plasmids by				
	de Mendoza, D. et al., "Overproduction of cis-Vaccenic Acid and Altered AS 3 Temperature Control of Fatty Acid Synthesis in a Mutant of Escherichia co Bacteriol. 151:1608-1611, American Society for Microbiology (1982).							ed a coli," J.				
	АТ	3	coli," J.	de Mendoza, D. et al., "Thermal Regulation of Membrane Fluidity in <i>Escherichi</i> coli," J. Biol. Chem. 258:2098-2101, American Society for Biochemistry and Molecular Biology (1983).								

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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4710003/RWE/FRC	APPLICATION NO. 10/761,278
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	AR	4	de Mendo	oza, D. and J.	E. Cronan, Jr., "Ther " TIBS 8:49-52, Elsev	mal regulation of	membrane	lipid			
	AS	4	Dityatkin, S. Ya. and B.N. Il'yashenko, "Acceptor properties of freeze-thawed bacteria in relation to isolated plasmid DNA," Chem. Abs. 89:295, Abstract No. 176192r, The American Chemical Society (1978).								
	АТ	4	of isola	n, S.Ya. and ited phage and Chemical Soc	B.N. Ilyashenko, "Fro I plasmid DNA," <i>Chem.</i> Liety (1979).	ozen and thawed be Abs. 90:322, Abst	acteria as ract No.	recipients 183010d, The			
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FORM PTO-1449 . INFORMATION DISCLOSURE STATEMENT	APPLICANT Donahue et al.	
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	АТ	<u>5</u>	Water Solu		ngell, "Phase Relations and Trehalose Anomaly," J. Ph					

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draitine through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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	AR	<u>6</u>	Hanahan, I I. a prace pp. 109-13	cical approach	s for Transformation of B., Glover, D.M., ed., IRL F	coli," i ress Limi	n DNA clon: ted, Oxford	ing. Volume i, England,	
	AS	<u>6</u>	Hanahan, I Bacteria,). et al., "Pl ' Meth. Enzym.	asmid Transformation of <i>Es</i> 204:63-113, Academic Pres	cherichia s, Inc. (coli and (Other	
	AT	<u>6</u>	Hatley, R. Undercooli	H.M. et al., ng," Process	"The Stabilization Of Labi Biochem. 22:169-172, Elsev	le Bioche ier Scien	micals By	987).	
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	AR	7	Enzyme Ass	THER (Including Author, Title, Date, Pertinent Pages, etc.) Hatley, R.H.M. and F. Franks, "Variation in Apparent Enzyme Activity in Two- Enzyme Assay Systems: Phosphoenolpyruvate Carboxylase and Malate Dehydrogenase Biotechnol. & Appl. Biochem. 11:367-370, Portland Press Ltd. (1989).					
	AS	2			y, "A Brief Review of Lyc " Cryobiology 18:592-597,				
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 0942.4710003/RWE/FRC	APPLICATION NO. 10/761,278	
APPLICANT Donahue et al.		
FILING DATE January 22, 2004	GROUP 1652	

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	AT	8	Morrison, Freezing,	D.A., "Transf " Meth. Enzym.	formation and Preservation o . 68:326-331, Academic Press	of Competer	nt Bacter; 979).	ial Cells
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

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ATTY. DOCKET NO.	APPLICATION NO.
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	AR	9	Polisky,	B. et al., "Sp	ecificity of substrate reco	gnition by			
	AS	2	Pope, B. coli," Nu	ope, B. and H.M. Kent, "High efficiency 5 min transformation of <i>Escherichia</i> oli," <i>Nucleic Acids Res. 24</i> :536-537, Oxford University Press (1996).					
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